

Wolfgang MÃ¼ller

List of Publications by Year in descending order

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papers

4,086
citations

101543

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68
docs citations

68
times ranked

4693
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous Hadean Hafnium: Evidence of Continental Crust at 4.4 to 4.5 Ga. <i>Science</i> , 2005, 310, 1947-1950.	12.6	476
2	Initial performance metrics of a new custom-designed ArF excimer LA-ICPMS system coupled to a two-volume laser-ablation cell. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 209-214.	3.0	313
3	Origin and Migration of the Alpine Iceman. <i>Science</i> , 2003, 302, 862-866.	12.6	229
4	Volcanic ash layers illuminate the resilience of Neanderthals and early modern humans to natural hazards. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13532-13537.	7.1	180
5	Eocene greenhouse climate revealed by coupled clumped isotope-Mg/Ca thermometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1174-1179.	7.1	146
6	Geochronological constraints on the evolution of the Periadriatic Fault System (Alps). <i>International Journal of Earth Sciences</i> , 2001, 90, 623-653.	1.8	121
7	Geochemistry of the Phlegraean Fields (Italy) proximal sources for major Mediterranean tephras: Implications for the dispersal of Plinian and co-ignimbritic components of explosive eruptions. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 93, 102-128.	3.9	110
8	Mg/Ca-temperature and seawater-test chemistry relationships in the shallow-dwelling large benthic foraminifera <i>Operculina ammonoides</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 325-342.	3.9	106
9	Deep time foraminifera Mg/Ca paleothermometry: Nonlinear correction for secular change in seawater Mg/Ca. <i>Paleoceanography</i> , 2012, 27, .	3.0	98
10	Tracing the life history of individual barramundi using laser ablation MC-ICP-MS Sr-isotopic and Sr/Ba ratios in otoliths. <i>Marine and Freshwater Research</i> , 2005, 56, 637.	1.3	96
11	Rb-Sr microchrons of synkinematic mica in mylonites: an example from the DAV fault of the Eastern Alps. <i>Earth and Planetary Science Letters</i> , 2000, 180, 385-397.	4.4	94
12	Microanalysis of tephra by LA-ICP-MS – Strategies, advantages and limitations assessed using the Thorsmörk ignimbrite (Southern Iceland). <i>Chemical Geology</i> , 2010, 279, 73-89.	3.3	94
13	Isotopic Dating of Strain Fringe Increments: Duration and Rates of Deformation in Shear Zones. <i>Science</i> , 2000, 288, 2195-2198.	12.6	93
14	Lombards on the Move – An Integrative Study of the Migration Period Cemetery at Székelyd, Hungary. <i>PLoS ONE</i> , 2014, 9, e110793.	2.5	91
15	The DAV and Periadriatic fault systems in the Eastern Alps south of the Tauern window. <i>International Journal of Earth Sciences</i> , 2001, 90, 593-622.	1.8	88
16	Planktic foraminifera shell chemistry response to seawater chemistry: Pliocene-Pleistocene seawater Mg/Ca, temperature and sea level change. <i>Earth and Planetary Science Letters</i> , 2016, 438, 139-148.	4.4	82
17	Regional temperature, atmospheric circulation, and sea-ice variability within the Younger Dryas Event constrained using a speleothem from northern Iberia. <i>Earth and Planetary Science Letters</i> , 2015, 419, 101-110.	4.4	75
18	Strengthening the link between geochronology, textures and petrology. <i>Earth and Planetary Science Letters</i> , 2003, 206, 237-251.	4.4	71

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19	Revisiting carbonate chemistry controls on planktic foraminifera Mg / $\delta^{18}O$ -Ca: implications for sea surface temperature and hydrology shifts over the Paleocene–Eocene Thermal Maximum and Eocene–Oligocene transition. <i>Climate of the Past</i> , 2016, 12, 819-835.	3.4	70
20	A snapshot of mantle metasomatism: Trace element analysis of coexisting fluid (LA-ICP-MS) and silicate (SIMS) inclusions in fibrous diamonds. <i>Earth and Planetary Science Letters</i> , 2009, 279, 362-372.	4.4	64
21	Assessing foraminifera biomineralisation models through trace element data of cultures under variable seawater chemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 198-217.	3.9	64
22	ESR and U-series analyses of faunal material from Cuddie Springs, NSW, Australia: implications for the timing of the extinction of the Australian megafauna. <i>Quaternary Science Reviews</i> , 2010, 29, 596-610.	3.0	62
23	Dating fault-generated pseudotachylytes: comparison of $^{40}Ar/^{39}Ar$ stepwise-heating, laser-ablation and Rb–Sr microsampling analyses. <i>Contributions To Mineralogy and Petrology</i> , 2002, 144, 57-77.	3.1	60
24	The RESET project: constructing a European tephra lattice for refined synchronisation of environmental and archaeological events during the last c. 100 kya. <i>Quaternary Science Reviews</i> , 2015, 118, 1-17.	3.0	60
25	Deformation-induced resetting of Rb/Sr and $^{40}Ar/^{39}Ar$ mineral systems in a low-grade, polymetamorphic terrane (Eastern Alps, Austria). <i>Journal of the Geological Society</i> , 1999, 156, 261-278.	2.1	59
26	ESTAL, a model for interpretation of Mg/Ca, Sr/Ca and Ba/Ca variations in speleothems and its forward and inverse application on seasonal to millennial scales. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	56
27	Isotope language of the Alpine Iceman investigated with AMS and MS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 204, 705-719.	1.4	53
28	Accuracy of laser-ablation (LA)-MC-ICPMS Sr isotope analysis of (bio)apatite – a problem reassessed. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 259-269.	3.0	52
29	Enamel mineralization and compositional time-resolution in human teeth evaluated via histologically-defined LA-ICPMS profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 105-126.	3.9	46
30	Late glacial explosive activity on Mount Etna: Implications for proximal–distal tephra correlations and the synchronisation of Mediterranean archives. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 265, 9-26.	2.1	45
31	Calibration of Na partitioning in the calcitic foraminifer <i>Operculina ammonoides</i> under variable Ca concentration: Toward reconstructing past seawater composition. <i>Earth and Planetary Science Letters</i> , 2018, 497, 80-91.	4.4	42
32	Eocene seasonality and seawater alkaline earth reconstruction using shallow-dwelling large benthic foraminifera. <i>Earth and Planetary Science Letters</i> , 2013, 381, 104-115.	4.4	40
33	Geochronology: linking the isotopic record with petrology and textures – an introduction. <i>Geological Society Special Publication</i> , 2003, 220, 1-24.	1.3	39
34	2D mapping of LA-ICPMS trace element distributions using R. <i>Computers and Geosciences</i> , 2012, 42, 152-161.	4.2	38
35	Evaluation of the effect of diagenetic cements on element/Ca ratios in aragonitic Early Miocene (~16Ma) Caribbean corals: Implications for deep-time palaeo-environmental reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 369, 185-200.	2.3	38
36	Environmental and physiological controls on daily trace element incorporation in <i>Tridacna crocea</i> from combined laboratory culturing and ultra-high resolution LA-ICP-MS analysis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 496, 32-47.	2.3	37

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37	Automated Extraction of a Five-Year LA-ICP-MS Trace Element Data Set of Ten Common Glass and Carbonate Reference Materials: Long-Term Data Quality, Optimisation and Laser Cell Homogeneity. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 159-188.	3.1	35
38	LA-ICPMS elemental imaging of complex discontinuous carbonates: An example using large benthic foraminifera. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1039.	3.0	34
39	Palaeotectonic setting of the south-eastern Adoukou-Niaba Inlier, West Africa: New insights from igneous trace element geochemistry and U-Pb zircon ages. <i>Precambrian Research</i> , 2016, 274, 110-135.	2.7	34
40	North Iberian temperature and rainfall seasonality over the Younger Dryas and Holocene. <i>Quaternary Science Reviews</i> , 2019, 226, 105998.	3.0	34
41	Early life of Neanderthals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28719-28726.	7.1	34
42	Preservation of NOM-metal complexes in a modern hyperalkaline stalagmite: Implications for speleothem trace element geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 29-43.	3.9	33
43	Daily growth and tidal rhythms in Miocene and modern giant clams revealed via ultra-high resolution LA-ICPMS analysis – A novel methodological approach towards improved sclerochemistry. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 465, 362-375.	2.3	33
44	Volcanic ash fall events identified using principal component analysis of a high-resolution speleothem trace element dataset. <i>Earth and Planetary Science Letters</i> , 2015, 426, 36-45.	4.4	29
45	Earliest Evidence for Social Endogamy in the 9,000-Year-Old Population of Basta, Jordan. <i>PLoS ONE</i> , 2013, 8, e65649.	2.5	29
46	Evaluating Mg/Ca in belemnite calcite as a palaeo-proxy. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 388, 98-108.	2.3	25
47	Direct chemical analysis of frozen ice cores by UV-laser ablation ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 2391.	3.0	21
48	Location of cation impurities in NGRIP deep ice revealed by cryo-cell UV-laser-ablation ICPMS. <i>Journal of Glaciology</i> , 2014, 60, 970-988.	2.2	21
49	Ca isotopic analysis of laser-cut microsamples of (bio)apatite without chemical purification. <i>Chemical Geology</i> , 2016, 422, 1-12.	3.3	20
50	LA-ICPMS Ba/Ca analyses of planktic foraminifera from the Bay of Bengal: Implications for late Pleistocene orbital control on monsoon freshwater flux. <i>Geochimica, Geophysics, Geosystems</i> , 2015, 16, 2598-2618.	2.5	19
51	LATE MIOCENE SEASONAL TO SUBDECADAL CLIMATE VARIABILITY IN THE INDO-WEST PACIFIC (EAST) Tj ETQq1 1 0.784314 1.3 19	1.3	19
52	Petrogenesis of the Sálheimar ignimbrite (Katla, Iceland): Implications for tephrostratigraphy. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 86, 318-337.	3.9	18
53	Holocene flood frequency reconstruction from speleothems in Northern Spain. <i>Quaternary Science Reviews</i> , 2015, 127, 129-140.	3.0	18
54	The Evolution of Deep Ocean Chemistry and Respired Carbon in the Eastern Equatorial Pacific Over the Last Deglaciation. <i>Paleoceanography</i> , 2017, 32, 1371-1385.	3.0	16

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55	BIOTIC AND ENVIRONMENTAL ORIGINS OF THE SOUTHEAST ASIAN MARINE BIODIVERSITY HOTSPOT: THE THROUGHFLOW PROJECT. <i>Palaios</i> , 2015, 30, 1-6.	1.3	15
56	Quaternary climatic instability in south-east Australia from a multi-proxy speleothem record. <i>Journal of Quaternary Science</i> , 2014, 29, 589-596.	2.1	14
57	The Role of LA-ICP-MS in Palaeoclimate Research. <i>Elements</i> , 2016, 12, 329-334.	0.5	14
58	Laser-cut Rb-Sr microsampling dating of deformational events in the Mont Blanc-Aiguilles Rouges region (European Alps). <i>Terra Nova</i> , 2016, 28, 35-42.	2.1	14
59	Calibrated cryo-cell UV-LA-ICPMS elemental concentrations from the NGRIP ice core reveal abrupt, sub-annual variability in dust across the GI-21.2 interstadial period. <i>Cryosphere</i> , 2017, 11, 1297-1309.	3.9	14
60	Spatially-Resolved Ca Isotopic and Trace Element Variations in Human Deciduous Teeth Record Diet and Physiological Change. <i>Environmental Archaeology</i> , 2022, 27, 474-483.	1.2	14
61	Tracing human mobility in central Europe during the Upper Paleolithic using sub-seasonally resolved Sr isotope records in ornaments. <i>Scientific Reports</i> , 2020, 10, 10386.	3.3	10
62	Accurate correction for the matrix interference on laser ablation MC-ICPMS boron isotope measurements in CaCO ₃ and silicate matrices. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1607-1617.	3.0	7
63	Intrashell Variability of Trace Elements in Benthic Foraminifera Grown Under High CO ₂ Levels. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	6
64	Salinity Effect on Trace Element Incorporation in Cultured Shells of the Large Benthic Foraminifer <i>Operculina aemmonoides</i> . <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004218.	2.9	6
65	The nature of annual lamination in carbonate flowstones from non-karstic fractures, Vinschgau (northern Italy). <i>Chemical Geology</i> , 2017, 457, 1-14.	3.3	5
66	Tracing the mobility of a Late Epigravettian (~13ka) male infant from Grotte di Pradis (Northeastern Italy). <i>Journal of Archaeological Science</i> , 2021, 128, 105504.	8.3	4
67	The trace-element composition of a Polish stalagmite: Implications for the use of speleothems as a record of explosive volcanism. <i>Chemical Geology</i> , 2021, 570, 120157.	3.3	3